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TEMPLATE

MONITORING REPORT

PUBLICATION DATE **14.10.2020**

VERSION **v. 1.1**

RELATED SUPPORT - **TEMPLATE GUIDE Monitoring Report v. 1.1**

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Key Project Information

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KEY PROJECT INFORMATION

This template has been revised to aid a consistent interpretation and to better support project developers submitting documentation for certification. Please read the accompanying guide to understand how to complete this template accurately.

[TEMPLATE GUIDE Monitoring Report v. 1.1](#)

Please delete this blue text box upon completion

Programme of Activity Information – (delete below table if N/A)

GS ID of Programme	GS 10818
Title of Programme	“Dissemination of Improved Cookstoves in India by Greenway”
Version of POA-DD applicable to this monitoring report	5.1
Name and GS ID of fully Validated CPA/VPAs (i.e. non compliance check)	<p>VPA Titles</p> <p>PoA Title: “Dissemination of Improved Cookstoves in India by Greenway”</p> <p>VPA Titles:</p> <ol style="list-style-type: none"> VPA 01: GS10818 - Dissemination of Improved Cookstoves in India by Greenway - Dissemination of Improved Cookstoves in Karnataka by Greenway - VPA001 (GS 10821) VPA 02: GS10818 - Dissemination of Improved Cookstoves in India by Greenway - Dissemination of Improved Cookstoves in Karnataka by Greenway - VPA002 (GS 10825) VPA 03: GS10818 - Dissemination of Improved Cookstoves in India by Greenway - Dissemination of Improved Cookstoves in Karnataka by Greenway - VPA003 (GS 11218) VPA 04: GS10818 - Dissemination of Improved Cookstoves in India by Greenway - Dissemination of Improved Cookstoves in Karnataka by Greenway - VPA004 (GS 11309)

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- 10.VPA 10: GS10818 - Dissemination of Improved Cookstoves in India by Greenway - Dissemination of Improved Cookstoves in Karnataka by Greenway - VPA010 (GS11629)
- 11.VPA 11: GS10818 - Dissemination of Improved Cookstoves in India by Greenway - Dissemination of Improved Cookstoves in Karnataka by Greenway - VPA011 (GS11630)
- 12.VPA 12: GS10818 - Dissemination of Improved Cookstoves in India by Greenway - Dissemination of

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14.VPA 14: GS10818 - Dissemination of Improved Cookstoves in India by Greenway - Dissemination of Improved Cookstoves in Karnataka by Greenway - VPA014 (GS 11633)

15.: VPA015: GS10818 - Dissemination of Improved Cookstoves in India by Greenway - Dissemination of Improved Cookstoves in Karnataka by Greenway - VPA015 (GS 11634)

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17.: VPA017: GS10818 - Dissemination of Improved Cookstoves in India by Greenway - Dissemination of Improved Cookstoves in Karnataka by Greenway - VPA017 (GS 12124)

18.: VPA018: GS10818 - Dissemination of Improved Cookstoves in India by Greenway - Dissemination of Improved Cookstoves in Karnataka by Greenway - VPA018 (GS 12125)

19.: VPA019: GS10818 - Dissemination of Improved Cookstoves in India by Greenway - Dissemination of Improved Cookstoves in Karnataka by Greenway - VPA019 (GS 12126)

20.: VPA020: GS10818 - Dissemination of Improved Cookstoves in India by Greenway - Dissemination of Improved Cookstoves in Karnataka by Greenway - VPA020(GS 12127)

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- 23.: VPA023: GS10818 - Dissemination of Improved Cookstoves in India by Greenway - Dissemination of Improved Cookstoves in Karnataka by Greenway - VPA023 (GS 12130)
- 24.: VPA024: GS10818 - Dissemination of Improved Cookstoves in India by Greenway - Dissemination of Improved Cookstoves in Karnataka by Greenway - VPA024(GS 12131)
- 25.: VPA025: GS10818 - Dissemination of Improved Cookstoves in India by Greenway - Dissemination of Improved Cookstoves in Karnataka by Greenway - VPA025(GS 12132)
- 26.: VPA026: GS10818 - Dissemination of Improved Cookstoves in India by Greenway - Dissemination of Improved Cookstoves in Karnataka by Greenway - VPA026 (GS 12141)
- 27.: VPA027: GS10818 - Dissemination of Improved Cookstoves in India by Greenway - Dissemination of Improved Cookstoves in Karnataka by Greenway - VPA027 (GS12364)
- 28.: VPA028: GS10818 - Dissemination of Improved Cookstoves in India by Greenway - Dissemination of Improved Cookstoves in Karnataka by Greenway - VPA028 (GS12365)
- 29.: VPA029: GS10818 - Dissemination of Improved Cookstoves in India by Greenway - Dissemination of Improved Cookstoves in Karnataka by Greenway - VPA029 (GS12366)

	<p>30.: VPA030: GS10818 - Dissemination of Improved Cookstoves in India by Greenway - Dissemination of Improved Cookstoves in Karnataka by Greenway – VPA030 (GS12367)</p> <p>31.: VPA031: GS10818 - Dissemination of Improved Cookstoves in India by Greenway - Dissemination of Improved Cookstoves in Karnataka by Greenway – VPA031 (GS12368)</p> <p>32.: VPA032: GS10818 - Dissemination of Improved Cookstoves in India by Greenway - Dissemination of Improved Cookstoves in Karnataka by Greenway – VPA032 (GS12369)</p> <p>33.: VPA033: GS10818 - Dissemination of Improved Cookstoves in India by Greenway - Dissemination of Improved Cookstoves in Karnataka by Greenway – VPA033 (GS12370)</p> <p>34.: VPA034: GS10818 - Dissemination of Improved Cookstoves in India by Greenway - Dissemination of Improved Cookstoves in Karnataka by Greenway – VPA034 (GS12371)</p> <p>GS IDs:</p> <p>GS 10821, GS 10825, GS 11218, GS 11309, GS 11310, GS 11311, GS 11312, GS 11313, GS 11628, GS 11629, GS 11630, GS 11631, GS 11632, GS 11633, GS 11634, GS 12123, GS 12124, GS 12125, GS 12126, GS 12127, GS 12128, GS 12129, GS 12130, GS 12131, GS 12132, GS 12141, GS 12364, GS 12365, GS 12366, GS 12367, GS 12368, GS 12369, GS 12370, GS 12371</p>
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Key Project Information

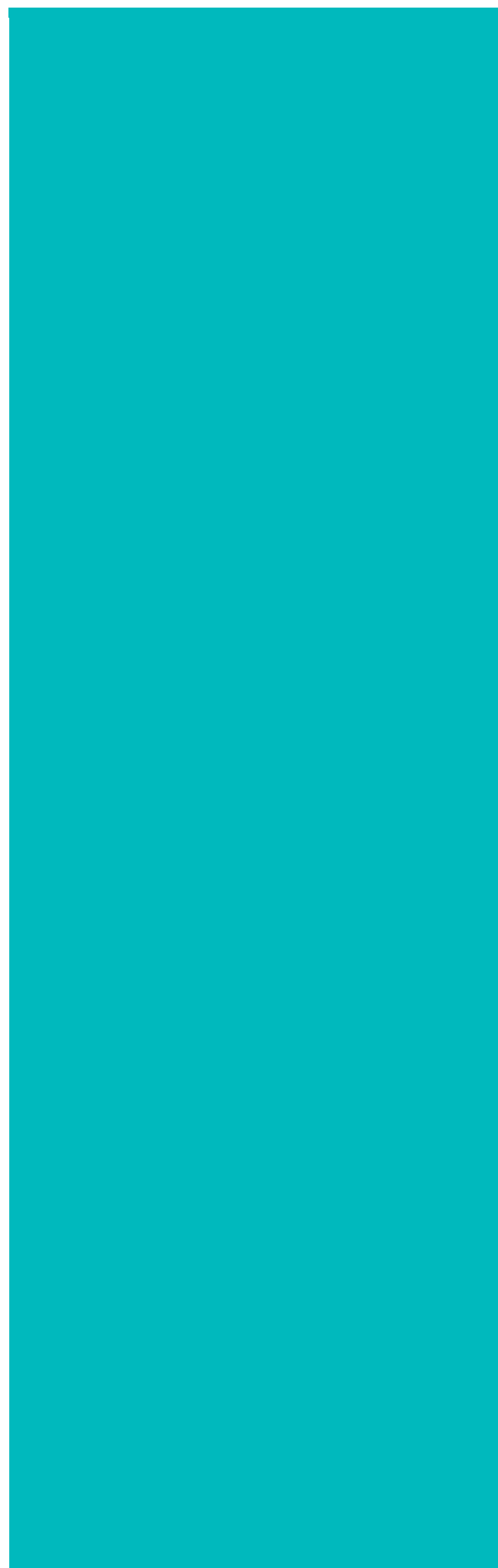
GS ID (s) of Project (s)	<p>GS IDs:</p> <p>GS 10821, GS 10825, GS 11218, GS 11309, GS 11310, GS 11311, GS 11312, GS 11313, GS 11628, GS 11629, GS 11630, GS 11631, GS 11632, GS 11633,</p>
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	<p>GS 11634, GS 12123, GS 12124, GS 12125, GS 12126, GS 12127, GS 12128, GS 12129, GS 12130, GS 12131, GS 12132, GS 12141, GS 12364, GS 12365, GS 12366, GS 12367, GS 12368, GS 12369, GS 12370, GS 12371</p>
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Version number of the PDD/VPA-DD (s) applicable to this monitoring report	<table border="1"> <thead> <tr> <th>VPA No.</th> <th>Applicable Version</th> </tr> </thead> <tbody> <tr> <td>VPA#001</td> <td>08</td> </tr> <tr> <td>VPA#002-015</td> <td>3.0</td> </tr> <tr> <td>VPA#016-026</td> <td>2.0</td> </tr> <tr> <td>VPA#027--034</td> <td>1.0</td> </tr> </tbody> </table>	VPA No.	Applicable Version	VPA#001	08	VPA#002-015	3.0	VPA#016-026	2.0	VPA#027--034	1.0
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VPA#001	08										
VPA#002-015	3.0										
VPA#016-026	2.0										
VPA#027--034	1.0										
Version number of the monitoring report	4.0										
Completion date of the monitoring report	11/11/2024										
Date of project design certification	PoA & VPA#001: 16/09/2021 VPA#002-0015: 03/11/2022 VPA#016-026: 19/06/2023 VPA#027-034: 23/11/2023										
Date of Last Annual Report	N/A (VPAs covered are to be Designed Review with combined performance certification)										

Monitoring period number	VPAs	Monitoring Period Number
	1	3
	2	3
	3	3
	4	3
	5	3
	6	3
	7	3
	8	3
	9	3
	10	3
	11	3
	12	3
	13	3
	14	3
	15	3
	16	2
	17	2
	18	2
	19	2
	20	2
	21	2
	22	2
	23	2
	24	2
	25	2
	26	2
	27	1
	28	1
	29	1
	30	1
	31	1
	32	1
	33	1
	34	1
Duration of this monitoring period	01/06/2023 to 31/05/2024	
Project Representative	Greenway Grameen Infra Pvt Ltd	
Host Country	India	
Activity Requirements applied	<input checked="" type="checkbox"/> Community Services Activities <input type="checkbox"/> Renewable Energy Activities <input type="checkbox"/> Land Use and Forestry Activities/Risks & Capacities <input type="checkbox"/> N/A	

Methodology (ies) applied and version number	AMS.II.G version 12
Product Requirements applied	<input checked="" type="checkbox"/> GHG Emissions Reduction & Sequestration <input type="checkbox"/> Renewable Energy Label <input type="checkbox"/> N/A

Table 1 - Sustainable Development Contributions Achieved

Sustainable Development Goals Targeted	SDG Impact	Amount Achieved				Units / Products
		VPA	2023	2024	Total ER (Ex-post, per VPA)	
13 Climate Action	Emission Reduction	VPA 1	23006	14234	37240	tCO2e
		VPA 2	23006	14234	37240	
		VPA 3	23006	14234	37240	
		VPA 4	23006	14234	37240	
		VPA 5	23006	14234	37240	
		VPA 6	23006	14234	37240	
		VPA 7	23006	14234	37240	
		VPA 8	23006	14234	37240	
		VPA 9	23006	14234	37240	
		VPA 10	23006	14234	37240	
		VPA 11	23006	14234	37240	
		VPA 12	23006	14234	37240	
		VPA 13	23006	14234	37240	
		VPA 14	23006	14234	37240	
		VPA 15	23006	14234	37240	
		VPA 16	23006	14234	37240	
		VPA 17	23006	14234	37240	
		VPA 18	23006	14234	37240	
		VPA 19	23006	14234	37240	
		VPA 20	23006	14234	37240	
		VPA 21	23006	14234	37240	
		VPA 22	23006	14234	37240	
		VPA 23	23006	14234	37240	
		VPA 24	23006	14234	37240	
		VPA 25	29410	14234	43644	
		VPA 26	25308	14234	39542	
		VPA 27	19432	14234	33666	
		VPA 28	16167	14234	30401	
		VPA 29	13954	14234	28188	
		VPA 30	11515	14234	25749	
		VPA 31	9193	14234	23427	
		VPA 32	6809	14234	21043	

		<table border="1"> <tr> <td>VPA 33</td> <td>3183</td> <td>14234</td> <td>17417</td> </tr> <tr> <td>VPA 34</td> <td>9</td> <td>5784</td> <td>5793</td> </tr> <tr> <td>Total</td> <td>68712</td> <td>475506</td> <td>1162630</td> </tr> </table>	VPA 33	3183	14234	17417	VPA 34	9	5784	5793	Total	68712	475506	1162630																																																																												
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SDG-3: Good Health and Well Being	Mortality rate attributed to household and ambient air pollution	53%	%																																																																																							
SDG-5: Gender Equality	Time spent collecting fuelwood from the forests and for cooking.	2.33 hours (Same value applicable for all VPAs)	Hours/week/HH																																																																																							
SDG 7- Affordable and Clean energy	Number of project households predominantly using clean cooking devices such as Improved Cook Stoves	<table border="1"> <thead> <tr> <th>VPAs</th> <th>2023</th> <th>2024</th> </tr> </thead> <tbody> <tr><td>1</td><td>15387</td><td>15387</td></tr> <tr><td>2</td><td>15387</td><td>15387</td></tr> <tr><td>3</td><td>15387</td><td>15387</td></tr> <tr><td>4</td><td>15387</td><td>15387</td></tr> <tr><td>5</td><td>15387</td><td>15387</td></tr> <tr><td>6</td><td>15387</td><td>15387</td></tr> <tr><td>7</td><td>15387</td><td>15387</td></tr> <tr><td>8</td><td>15387</td><td>15387</td></tr> <tr><td>9</td><td>15387</td><td>15387</td></tr> <tr><td>10</td><td>15387</td><td>15387</td></tr> <tr><td>11</td><td>15387</td><td>15387</td></tr> <tr><td>12</td><td>15387</td><td>15387</td></tr> <tr><td>13</td><td>15387</td><td>15387</td></tr> <tr><td>14</td><td>15387</td><td>15387</td></tr> <tr><td>15</td><td>15387</td><td>15387</td></tr> <tr><td>16</td><td>15387</td><td>15387</td></tr> <tr><td>17</td><td>15387</td><td>15387</td></tr> <tr><td>18</td><td>15387</td><td>15387</td></tr> <tr><td>19</td><td>15387</td><td>15387</td></tr> <tr><td>20</td><td>15387</td><td>15387</td></tr> <tr><td>21</td><td>15387</td><td>15387</td></tr> <tr><td>22</td><td>15387</td><td>15387</td></tr> <tr><td>23</td><td>15387</td><td>15387</td></tr> <tr><td>24</td><td>15387</td><td>15387</td></tr> <tr><td>25</td><td>10300</td><td>15387</td></tr> <tr><td>26</td><td>0</td><td>15387</td></tr> <tr><td>27</td><td>0</td><td>15387</td></tr> <tr><td>28</td><td>0</td><td>15387</td></tr> </tbody> </table>	VPAs	2023	2024	1	15387	15387	2	15387	15387	3	15387	15387	4	15387	15387	5	15387	15387	6	15387	15387	7	15387	15387	8	15387	15387	9	15387	15387	10	15387	15387	11	15387	15387	12	15387	15387	13	15387	15387	14	15387	15387	15	15387	15387	16	15387	15387	17	15387	15387	18	15387	15387	19	15387	15387	20	15387	15387	21	15387	15387	22	15387	15387	23	15387	15387	24	15387	15387	25	10300	15387	26	0	15387	27	0	15387	28	0	15387	Households
VPAs	2023	2024																																																																																								
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Table 2 – Product Vintages

		Amount Achieved			
Start Dates	End Dates	ERs	
01/05/2023	31/12/2023	VPAs	2023		
		VPA 1	23006		
		VPA 2	23006		
		VPA 3	23006		
		VPA 4	23006		
		VPA 5	23006		
		VPA 6	23006		
		VPA 7	23006		
		VPA 8	23006		
		VPA 9	23006		
		VPA 10	23006		
		VPA 11	23006		
		VPA 12	23006		
		VPA 13	23006		
		VPA 14	23006		
		VPA 15	23006		
		VPA 16	23006		
		VPA 17	23006		
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		VPA 20	23006		
		VPA 21	23006		
		VPA 22	23006		
		VPA 23	23006		
		VPA 24	23006		
		VPA 25	29410		
		VPA 26	25308		
		VPA 27	19432		
		VPA 28	16167		
		VPA 29	13954		
		VPA 30	11515		
		VPA 31	9193		
		VPA 32	6809		
		VPA 33	3183		
		VPA 34	9		
		Total	687124		

01/01/2024	31/05/2024	<table border="1"> <thead> <tr> <th>VPA</th> <th>2024</th> </tr> </thead> <tbody> <tr><td>VPA 1</td><td>14234</td></tr> <tr><td>VPA 2</td><td>14234</td></tr> <tr><td>VPA 3</td><td>14234</td></tr> <tr><td>VPA 4</td><td>14234</td></tr> <tr><td>VPA 5</td><td>14234</td></tr> <tr><td>VPA 6</td><td>14234</td></tr> <tr><td>VPA 7</td><td>14234</td></tr> <tr><td>VPA 8</td><td>14234</td></tr> <tr><td>VPA 9</td><td>14234</td></tr> <tr><td>VPA 10</td><td>14234</td></tr> <tr><td>VPA 11</td><td>14234</td></tr> <tr><td>VPA 12</td><td>14234</td></tr> <tr><td>VPA 13</td><td>14234</td></tr> <tr><td>VPA 14</td><td>14234</td></tr> <tr><td>VPA 15</td><td>14234</td></tr> <tr><td>VPA 16</td><td>14234</td></tr> <tr><td>VPA 17</td><td>14234</td></tr> <tr><td>VPA 18</td><td>14234</td></tr> <tr><td>VPA 19</td><td>14234</td></tr> <tr><td>VPA 20</td><td>14234</td></tr> <tr><td>VPA 21</td><td>14234</td></tr> <tr><td>VPA 22</td><td>14234</td></tr> <tr><td>VPA 23</td><td>14234</td></tr> <tr><td>VPA 24</td><td>14234</td></tr> <tr><td>VPA 25</td><td>14234</td></tr> <tr><td>VPA 26</td><td>14234</td></tr> <tr><td>VPA 27</td><td>14234</td></tr> <tr><td>VPA 28</td><td>14234</td></tr> <tr><td>VPA 29</td><td>14234</td></tr> <tr><td>VPA 30</td><td>14234</td></tr> <tr><td>VPA 31</td><td>14234</td></tr> <tr><td>VPA 32</td><td>14234</td></tr> <tr><td>VPA 33</td><td>14234</td></tr> <tr><td>VPA 34</td><td>5784</td></tr> <tr> <td>Total</td> <td>475506</td> </tr> </tbody> </table>	VPA	2024	VPA 1	14234	VPA 2	14234	VPA 3	14234	VPA 4	14234	VPA 5	14234	VPA 6	14234	VPA 7	14234	VPA 8	14234	VPA 9	14234	VPA 10	14234	VPA 11	14234	VPA 12	14234	VPA 13	14234	VPA 14	14234	VPA 15	14234	VPA 16	14234	VPA 17	14234	VPA 18	14234	VPA 19	14234	VPA 20	14234	VPA 21	14234	VPA 22	14234	VPA 23	14234	VPA 24	14234	VPA 25	14234	VPA 26	14234	VPA 27	14234	VPA 28	14234	VPA 29	14234	VPA 30	14234	VPA 31	14234	VPA 32	14234	VPA 33	14234	VPA 34	5784	Total	475506		
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SECTION A. DESCRIPTION OF PROJECT

A.1. General description of project

>> The VPAs (1-34) covered by the monitoring report under the PoA includes dissemination of Improved Cookstoves in Karnataka state of India by Greenway project is eligible under the CDM methodology AMS.II.G. The VPAs disseminated improved cook stoves (ICS) – to households within Karnataka. By providing clean cooking, the project will ensure that households consume less firewood during the process of cooking and as a result there shall be a reduction of carbon dioxide emissions from the combustion process.

Access to energy is still a huge challenge for rural India. Over 800 million Indians use traditional biomass cookstoves for their cooking needs. The widespread use of traditional cookstoves poses serious risks to health and women’s empowerment which are avoidable if they get access to modern fuel-efficient cookstoves. Access to these basic resources and amenities is a prerequisite for healthy living and sanitation in rural India and are interconnected with the health and economic well-being of the people. Greenway Grameen Infra Private Limited is India's largest manufacturer of biomass cookstoves, which are designed with patented, air regulation technology. Greenway aims to continually develop products that solve some of the pressing needs of mass market households.



Figure 1 Beneficiary with Greenway Grameen Improved Cookstove

In addition to reducing Greenhouse Gas emissions and contributing to the mitigation of climate change, the project will also provide benefits to the local communities:

- Reduced deforestation and degradation of surrounding forests, as less wood will be needed to cook;
- Reduced soil erosion and nutrient loss as trees protect the land;
- Reduced risk of flooding in hilly areas as trees and plants on slopes soak up rain;
- Reduced poverty, as the efficient wood stove reduces annual expenditure on cooking fuels;
- Reduced adverse health effects associated with smoke inhalation;
- Reduced cooking and wood collection time, which will allow more time to be spent on other important household tasks and/or supervising children;

In line to its vision of delivering high impact related to health, savings and convenience, Greenway is undertaking an extensive distribution programme to create a nation-wide access of Improved Cookstoves for low-income consumer. Greenway is planning to support this programme through an innovative approach of climate financing, helping households to overcome barriers like affordability, availability, and financing. Greenway is providing modern energy-efficient replacements for traditional three stone stoves (chulhas) delivering **65%** fuel savings and **70%** smoke reduction. These modern cookstoves can run on all kinds of solid biomass fuels. Greenway clean cookstoves can play a vital role in eliminating severe health impacts and resource inefficiency arising out of traditional cookstoves. Greenway cookstoves minimize noxious CO, PM and GHG emissions in the kitchens. Leading to better health for active beneficiaries such as women and passive beneficiaries such as children, elderly and disabled who are usually confined to the home and suffer from indoor air pollution. Moreover, they facilitate income savings due to low fuel consumption and combating climate change by reducing deforestation.



Figure 2 Beneficiary cooking on Greenway stove

The VPAs have contributed in achieving SDGs including, SDG-3: Good Health and Well Being, SDG-5: Gender Equality, SDG 7- Affordable and Clean energy and SDG-13: Climate Action. The programme would result in GHG emission reductions and other impact outcomes which can be traded internationally, and the revenue collected from such trade will benefit the scaling up of the project and thereby assist other households who are still using traditional stoves.

A.2. Location of project

>>The locations of all 34 VPAs is in Karnataka state of India, in various districts. The location is shown below:

Geographical coordinates of the Karnataka state (15.317° N, 75.714° E)

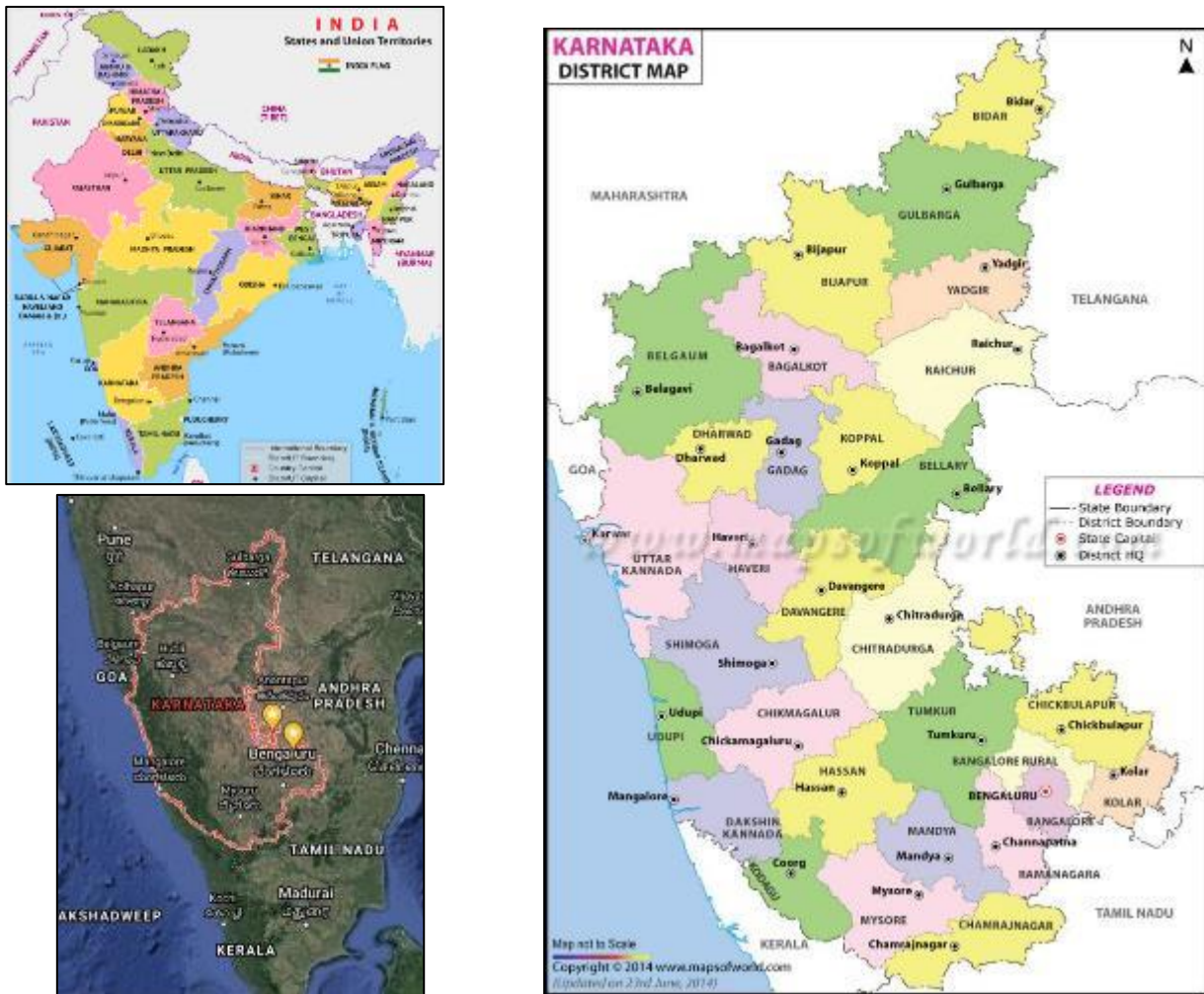


Figure 3 Project area

A.3. Reference of applied methodology

>> CDM approved small-scale methodology-AMS.II.G is chosen for the PoA.
 AMS-II.G.: “Energy efficiency measures in thermal applications of non-renewable biomass” – (Version 12.0)

The project adheres to the following conditions making it methodologically eligible:

Methodological tools

Tool19: Demonstration of additionality of microscale project activities (version 09.0)

Tool21: Demonstration of additionality of small-scale project activities (version 13.1)

Tool20: Assessment of debundling for small-scale project activities (version 04.0)

Standard for sampling and surveys for CDM project activities and programmes of activities (version 09.0).

A.4. Crediting period of project

>>5 years, renewable twice
 PoA Period: 14/05/2020 - 13/05/2025

Crediting period of VPAs covered by the monitoring report are tabulated below:

VPA No.	Crediting Period
VPA#001	14/05/2020 - 13/05/2025
VPA#002	03/11/2020 - 02/11/2025
VPA#003	03/11/2020 - 02/11/2025
VPA#004	03/11/2020 - 02/11/2025
VPA#005	15/12/2020-14/12/2025
VPA#006	18/01/2021-17/01/2026
VPA#007	12/02/2021-11/02/2026
VPA#008	24/03/2021-23/03/2026
VPA#009	02/09/2021-01/09/2026
VPA#010	27/09/2021-16/09/2026
VPA#011	19/10/2021-18/10/2026
VPA#012	20/11/2021-19/10/2026
VPA#013	20/12/2021-19/12/2026
VPA#014	21/01/2022-20/01/2027
VPA#015	01/03/2022 - 01/03/2027
VPA#016	19/05/2022 – 18/05/2027
VPA#017	16/06/2022 -15/06/2027
VPA#018	08/07/2022-07/07/2027
VPA#019	24/07/2022-23/07/2027
VPA#020	16/08/2022-15/08/2027
VPA#021	09/09/2022-08/09/2027
VPA#022	24/09/2022-23/09/2027
VPA#023	18/10/2022-17/10/2027
VPA#024	14/11/2022-13/11/2027
VPA#025	19/12/2022-18/12/2027
VPA#026	08/02/2023-07/02/2028
VPA#027	21/05/2023-20/05/2028
VPA#028	26/06/2023-25/06/2028
VPA#029	25/07/2023-24/07/2028
VPA#030	18/08/2023-17/08/2028
VPA#031	14/09/2023-13/09/2028
VPA#032	07/10/2023-06/10/2028
VPA#033	10/11/2023-09/11/2028
VPA#034	27/12/2023-26/12/2028

SECTION B. IMPLEMENTATION OF PROJECT

B.1. Description of implemented project

>> Stoves disseminated under this POA and the VPAs covered under this monitoring report targeted rural and semi- urban households of Karnataka state of India, which were previously reliant on traditional, inefficient cookstoves and open fires for their cooking needs in the baseline. The VPAs under the PoA have distributed improved cookstove (ICS) to households, a portable improved-efficiency stove manufactured by Greenway. The ICS will have an average lifespan of 7 years and thermal efficiency of about 38% (Designed Efficiency).

ICSs are more efficient than conventional firewood stoves as they reduce heat loss and improve heat transfer and combustion efficiency. The ICS models are fuel efficient, resulting in a decrease in fuel use in comparison to conventional pre-project stoves while also reducing smoke and particulate matter and carbon emissions. Design considerations have also incorporated ergonomics and safety.

The PoA continually assessed biomass stove technology options with the goal of providing the high performing, affordable and locally appropriate technologies to the local environments when possible.

Below are the distributed ICS:

1. Greenway Jumbo stoves

The ICS cooking system is made of a fuel chamber for combusting the renewable biomass. The pot-rest is above the fuel chamber. The stove has one air inlet and weighs approximately 3782 grams.



Figure 4 Green Jumbo ICS

A record keeping system and unique identification of the ICS will be done by user’s information collected through the Beneficiary Agreement and compiled in distribution records. This will include user name, identification number and address/location of the user’s house, stove unique serial code and distribution date. The database will ensure that each ICS can be traced to project to avoid double counting. Each VPA (From 1-33) has distributed 15,500 ICS and the distribution in VPA#034 was 8,143 ICS till the end of monitoring period. Each VPA was supposed to distribute 15,500 ICS as per the VPA DDs, the distribution process of VPA#001-0033 was completed and for VPA#034 the distribution is undergoing and therefore only the SDGs were claimed up to the distribution at the end of monitoring period. In total 519,643 ICS were distributed till the current monitoring period. However, 515,859 stoves were found operational during current monitoring period.



Figure 5 One of the happy customers with Greenway Stove

The ICSs under the 34 VPAs clubbed for the verification/performance review were distributed in a phased manner. The database consisting of the each ISC under the project activity is part of ER spreadsheet. The database includes the details of HHs, address, location inter alia as per the GS requirements.

Table 2 Number of ICS distributed under each VPAs

VPAs	Number of stove distributed
1	15,500
2	15,500
3	15,500

4	15,500
5	15,500
6	15,500
7	15,500
8	15,500
9	15,500
10	15,500
11	15,500
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13	15,500
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21	15,500
22	15,500
23	15,500
24	15,500
25	15,500
26	15,500
27	15,500
28	15,500
29	15,500
30	15,500
31	15,500
32	15,500
33	15,500
34	8,143
Total	519,643

B.1.1.1 Forward Action Requests

>>During the Design Review of VPAs 27 to 34 the following FARs were raised.

FAR#1: PD shall include relevant questions in future project monitoring surveys that ensure the risk of double counting, especially regarding the use of ICSs from other registered projects/programs, can be assessed. The VVB is asked to thoroughly verify the double-counting aspect.

FAR#2: PD shall include relevant questions in future project monitoring surveys that ensure the risk of double counting, especially regarding the use of ICSs from other registered projects/programs, can be assessed. The VVB is asked to thoroughly verify the double-counting aspect.

FAR#3: LPG use shall be accounted for within the emission reduction calculation and not as a separate project emission source. The PD is asked to include relevant questions in the project monitoring surveys to estimate the exact use of LPG stoves in the same way that (other) baseline stove usage is assessed. Monitoring plan for relevant parameters shall be revised to account for the LPG usage during the monitoring period. The VVB shall review this aspect thoroughly and consider it for the sample selection.

FAR#4: For the VPAs directly included by the CME following Fast track inclusion pathway, the VVB shall conduct the site visit within two years of a VPA's start date. If not, the CME could only claim the realized VERs in the period of two years prior to the 1st verification onsite visiting date for the specific VPAs.

FAR#5: the VVB that performs the first verification for these VPAs to be included in the PoA without VVB compliance check, shall confirm that they comply with the requirements defined for the inclusion of VPAs in the registered PoA.

FAR 6: The PoA was design certified in Feb 2022 and adopted GS4GG PoA requirements, V1.2. The CME shall follow design change procedure to upgrade to GS4GG PoA requirements, V2.1 and shall define the eligibility criteria for inclusion of real case and its regular VPAs in the PoA in case the CME wants to define real case and regular case VPAs and follow the New PoA hierarchy defined, and corresponding rules and requirements established.

The responses for the above FARs are as below:

Response to FAR#1: To mitigate the risk of double counting the PD has undertaken following measures. These ensures that the distributed ICS has not been included in any other GHG programs. These are listed below:

1. The PD has included the relevant question to avoid double counting, which has already been used in the current monitoring survey (2023-2024). This can be reviewed in the ER calculation worksheet under the "Survey Response" sheet.
2. The PD maintains a database of the ICS distributed to the beneficiaries ensuring that no other stoves are involved in the program.
3. The PD has provided a signed declaration claiming no double counting.
4. The PD ensures no double counting by assigning unique stove IDs, which can be tracked and are continuously monitored through various programmes (training, awareness and maintenance) conducted by the PD.

Response to FAR#2: To mitigate the risk of double counting the PD has undertaken following measures. These ensures that the distributed ICS has not been included in any other GHG programs. These are listed below:

1. The PD has included the relevant question to avoid double counting, which has already been used in the current monitoring survey (2023-2024). This can be reviewed in the ER calculation worksheet under the "Survey Response" sheet.
2. The PD maintains a database of the ICS distributed to the beneficiaries ensuring that no other stoves are involved in the program.
3. The PD has provided a signed declaration claiming no double counting.
4. The PD ensures no double counting by assigning unique stove IDs, which can be tracked and are continuously monitored through various programmes (training, awareness and maintenance) conducted by the PD.
5. **Response to FAR#3:** LPG usage has been accounted within emission reduction calculation and it has not been accounted as a separate emission source. And the same can be viewed in the ER sheet. The PD has included required questions in the project monitoring survey (2023-2024) to estimate the exact usage of LPG stoves in the same way that (other) baseline stove usage are being assessed. Below are the following included questions:
 1. Do you also use LPG Cylinders?
 2. If yes, how many times do you refill the cylinder in a year?
 3. How many times do you cook on LPG stove in a week?
 - A. Once a week
 - B. Twice a week
 - C. Thrice a week
 - D. Four times a week
 - E. Five times a week
 - F. Daily
 4. If daily, then how many times a day?

This can be verified from the ER sheet under "Survey Responses" worksheet. Additionally, the same has been added in the MR under section D.2 Data and Parameters Monitored.

Response to FAR#4: The start date of the VPAs from VPA#27 to VPA#34 are as follows:

VPAs	Start Date
27	21/05/2023
28	26/06/2023
29	25/07/2023
30	18/08/2023
31	14/09/2023
32	07/10/2023
33	10/11/2023
34	27/12/2023

The start dates for VPAs #27 to #34 have been recorded in the above table, showing that their start year is 2023. The VVB conducted the required site visits during the current monitoring period (2023-2024) in June 2024, thereby fulfilling the requirement of conducting site visits within two years of each VPA's start date.

Response to FAR#5: The project proponent is complying with the requirements defined for the inclusion of VPAs in the registered PoA. Please refer to the section A.1.1 in the approved VPA-DD, version 1.

Response to FAR#6: The Program of Activities (PoA) adheres to the requirements outlined in GS4GG PoA requirements, version 1.2. Any updates or changes to these requirements will be reflected following the renewal of the PoA.

B.2. Post-Design Certification changes

>>

B.2.1. Temporary deviations from the approved Monitoring & Reporting Plan, methodology or standardized baseline

>>

No deviation applied or sought during the current performance review.

B.2.2. Corrections

>>

Not applicable

B.2.3. Changes to start date of crediting period

>> Not applicable

B.2.4. Permanent changes from the Design Certified monitoring plan, applied methodology or applied standardized baseline

>>

Not applicable

B.2.5. Changes to project design of approved project

>> Not applicable

SECTION C. DESCRIPTION OF MONITORING SYSTEM APPLIED BY THE PROJECT

A. Total Sales Record

>> Sales records are maintained continuously by Project Proponent (PP). Sales records provide a summary of daily sales. Sales records are first captured in paper form on warranty cards. These are entered into electronic databases (excel etc.). Stove age for each stove is calculated and the average age of VPAs is considered for the emission reduction calculations (1.08 year) against the monitoring period days 366. The calculation is demonstrated in the ER spreadsheet.



Figure 6 Beneficiary cooking on Greenway stove

B. Monitoring Data Management and Storage

The results of all Usage cum Kitchen Surveys (UKS) are collated in excel spreadsheets with the help of software and stored on a central server in an electronic format with original copies of our project documentation are retained in the CME's central office.

All surveys are administered by trained staff who are fluent in the local dialect, ensuring that response collection remains consistent and unaffected by regional language barriers. Field staff were provided with both English and local language versions of the questionnaire to ensure the highest possible standardization of responses.

The UKS provides information regarding the usage of project stoves, kitchen conditions (number of meals cooked, operational status, continual use of baseline stove inter alia) and sustainable development indicators to the project scenario. UKSs are carried out via physical visit to VPAs households. Data collected during an UKS contains the following type of data:

- General information - Name, address, telephone number etc.
- Household socio-demographic information
- Cooking behavior (number of meals cooked, commercial cooking), Stove type (number of project stoves & mix)
- Usage levels in terms of operational status of stove
- Photographs with the primary cook or available HH
- Location (Geocoordinate)
- Photographs

The answer sheets completed in the field are returned to the local office for transcribing into an excel spreadsheet. Once completed, the data is sent to the central office for analysis. As required by the applicable Gold Standard Methodology the UKS is conducted annually to capture any emerging trends.



Figure 7 Customer with Greenway stove

C. Periodic Monitoring Task

The periodic monitoring tasks are as follow:

- Usage cum Kitchen Surveys are conducted biennially to determine usage, emerging trends in demographics, fuel use and sustainability indicators. This is the first verification for all the VPAs covered by the PoA. The filed

survey was undertaken by the trained staff of Greenway in the month of April/May 2024.

- WBT has been carried out in accordance with the WBT protocols. The sample size is considered by using 95/10 confidence precession conservatively against the required confidence precession of 90/10 as per the methodology and registered monitored plan. The details of sampling are produced in ER spreadsheet.
- Project Technology Days is reviewed continuously throughout the project in order to determine the number of crediting stoves and the period for which they should be credited in a given monitoring period (based on stove installation and expiry date). The calculation is demonstrated in the ER spread sheet.
- NRB fraction is validated ex-ante as part of PoA/VPAs.

All data recorded will be stored by the project proponents for a minimum of two years after the end of the crediting period or the last issuance of VERs, whichever occurs later.

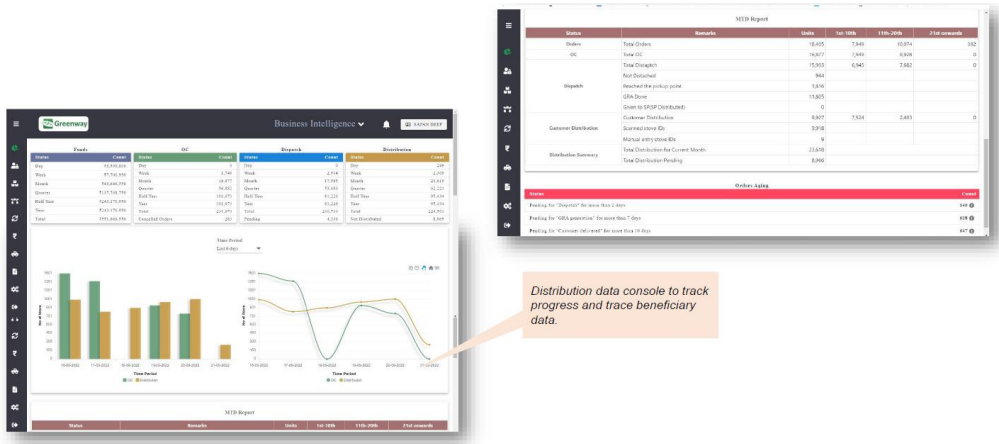


Figure 8 Distribution data console for tracking and tracing beneficiary data

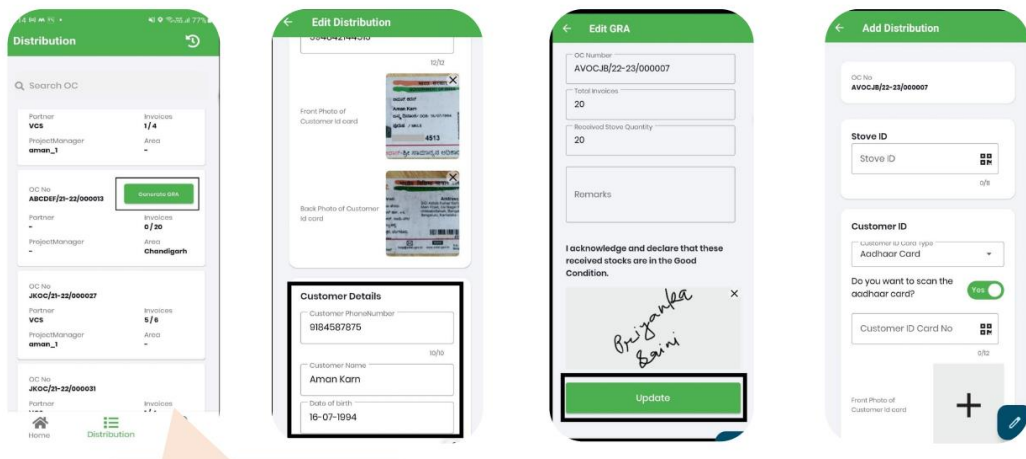


Figure 9 Mobile application for distribution and collection of beneficiary data

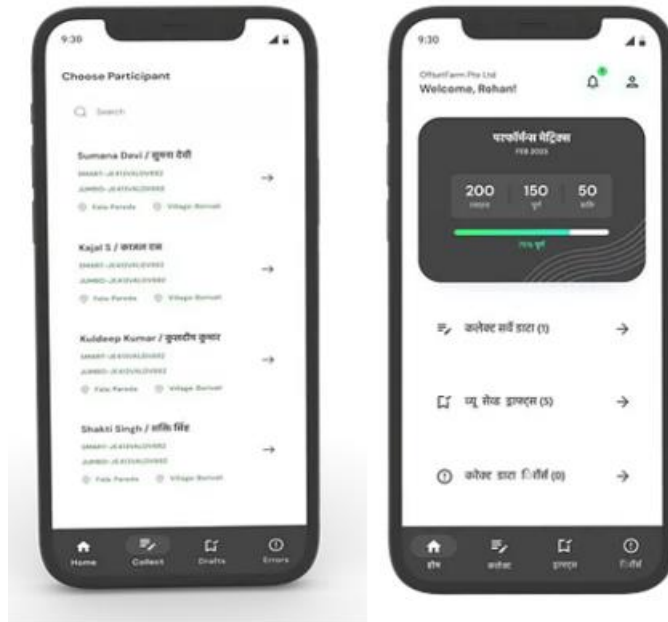


Figure 10 Mobile application 'Trace' used during the monitoring survey

Periodic Trainings

In the ongoing efforts to assess the impact and effectiveness of the Greenway stove, the project proponent (PP) have conducted a series of meetings with local communities and beneficiaries residing in areas where the stoves were distributed. These meetings serve as a platform for us to connect directly with households and get views into their experiences with the Greenway stove. By engaging in open discussions, the PP aim to understand how the Greenway stove has integrated into their daily cooking routines and whether it has truly helped the challenges they faced with traditional stoves. Moreover, routine training sessions are conducted to empower the local representative and the beneficiaries with necessary product knowledge and skills, enabling them to effectively address any queries or concerns from the community.

Through these engagements, the PP have been able to obtain valuable feedbacks directly from beneficiaries regarding the benefits and drawbacks of the Greenway stove compared to conventional cooking methods. Many households have expressed appreciation for the stove's efficiency in reducing

fuel consumption, less smoke and cooking time. Additionally, there were no negative feedbacks received as such. Overall, these meetings have proven effective in fostering a deeper understanding of the impact of the Greenway stove on local livelihoods and shaping future interventions to better serve the needs of the communities the PP aim to empower.

Below are the details of the meetings conducted.

S.No	Month	Date of training	Type of training	Category of training	Venue/Link/Location	Mode of training
1	May	1/5/2023	Field Training	Product & Demo Training	Vittla	Offline
2	May	9/5/2023	Field Training	Product & Demo Training	Kumta	Offline
3	May	13/05/2023	Field Training	Product & Demo Training	Gangaavati	Offline
4	May	16/05/2023	Field Training	Product & Demo Training	Chennagiri	Offline
5	May	23/05/2023	Field Training	Product & Demo Training	Kushtagi	Offline
6	May	1/5/2023	Field Training	Product & Demo Training	Shiggaon	Offline
7	May	13/05/2023	Field Training	Product & Demo Training	Haveri and Byadagi	Offline
8	May	23/05/2023	Field Training	Product & Demo Training	Sorab	Offline
9	May	30/05/2023	Field Training	Product & Demo Training	Yallapura and Sirsi	Offline
10	May	30/05/2023	Field Training	Product & Demo Training	Alanda	Offline
11	May	2/5/2023	Field Training	Product & Demo Training	Tumkur	Offline
12	May	6/5/2023	Field Training	Product & Demo Training	Channapatna	Offline
13	May	14/05/2023	Field Training	Product & Demo Training	Gundlupet	Offline
14	May	22/05/2023	Field Training	Product & Demo Training	Sira	Offline
15	May	23/05/2023	Field Training	Product & Demo Training	Hd kote	Offline
16	June	2/6/2023	Field Training	Product & Demo Training	Hanagal	Offline
17	June	2/6/2023	Field Training	Product & Demo Training	Sagar	Offline
18	June	10/6/2023	Field Training	Product & Demo Training	Shikaripura	Offline
19	June	14/06/2023	Field Training	Product & Demo Training	Yallapura	Offline
20	June	19/06/2023	Field Training	Product & Demo Training	Saudatti	Offline
21	June	1/6/2023	Field Training	Product & Demo Training	Madhugiri	Offline
22	June	9/6/2023	Field Training	Product & Demo Training	Ramanagara	Offline
23	June	5/6/2023	Field Training	Product & Demo Training	Hd kote	Offline
24	June	13/06/2023	Field Training	Product & Demo Training	Mysore	Offline
25	June	24/06/2023	Field Training	Product & Demo Training	Kanakapura	Offline
26	July	1/7/2023	Field Training	Product & Demo Training	Sorab	Offline
27	July	5/7/2023	Field Training	Product & Demo Training	Alanda	Offline
28	July	14/07/2023	Field Training	Product & Demo Training	Chincholi	Offline
29	July	6/7/2023	Field Training	Product & Demo Training	Saudatti	Offline
30	July	4/7/2023	Field Training	Product & Demo Training	Bagalkoti	Offline
31	July	13/07/2023	Field Training	Product & Demo Training	Ramanagara	Offline
32	August	1/8/2023	Online Training	Product & Demo Training	Google meet	Online
33	August	5/8/2023	Online Training	Product & Demo Training	Google meet	Online
34	August	14/08/2023	Online Training	Product & Demo Training	Google meet	Online
35	October	9/10/2023	Field Training	Product & Demo Training	Tayaluru	Offline

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36	October	9/10/2023	Field Training	Product & Demo Training	HK Halli	Offline
37	October	10/10/2023	Field Training	Product & Demo Training	Shidlagatta B	Offline
38	October	28/10/2023	Field Training	Product & Demo Training	Kunigal	Offline
39	October	28/10/2023	Field Training	Product & Demo Training	Desanur	Offline
40	October	30/10/2023	Field Training	Product & Demo Training	Hosahalli	Offline
41	October	30/10/2023	Field Training	Product & Demo Training	Yaragatti	Offline
42	October	30/10/2023	Field Training	Product & Demo Training	Kalburgi	Offline
43	November	4/11/2023	Field Training	Product & Demo Training	Tellur	Offline
44	November	4/11/2023	Field Training	Product & Demo Training	Haldodderi	Offline
45	November	4/11/2023	Field Training	Product & Demo Training	Uttaramalai	Offline
46	November	4/11/2023	Field Training	Product & Demo Training	Huthur	Offline
47	November	3/11/2023	Field Training	Product & Demo Training	Kalburgi	Offline
48	November	2/11/2023	Field Training	Product & Demo Training	Ugar	Offline
49	November	9/11/2023	Field Training	Product & Demo Training	Kalburgi	Offline
50	November	9/11/2023	Field Training	Product & Demo Training	Ugar	Offline
51	November	9/11/2023	Field Training	Product & Demo Training	Aurad	Offline
52	November	9/11/2023	Field Training	Product & Demo Training	Kuppasiddanadod di	Offline
53	November	17/11/2023	Online Training	Team Office Attendance Training	Google meet	Online
54	November	17/11/2023	Online Training	Grooming & Etiquettes	Google meet	Online
55	November	12/11/2023	Field Training	Product & Demo Training	Kollegala	Offline
56	November	15/11/2023	Field Training	Product & Demo Training	Gubbi	Offline
57	November	16/11/2023	Field Training	Product & Demo Training	Bangaluru	Offline
58	November	16/11/2023	Field Training	Product & Demo Training	Ugar	Offline
59	November	16/11/2023	Field Training	Product & Demo Training	Thimmegowdanap alya	Offline
60	November	16/11/2023	Field Training	Product & Demo Training	Mallanayakanahalli	Offline
61	November	19/11/2023	Field Training	Product & Demo Training	Chowkahalli	Offline
62	November	19/11/2023	Field Training	Product & Demo Training	Hanuru	Offline
63	November	18/11/2023	Field Training	Product & Demo Training	Ugar	Offline
64	November	18/11/2023	Field Training	Product & Demo Training	Tadkal	Offline
65	November	17/11/2023	Field Training	Product & Demo Training	Bellary	Offline
66	November	16/11/2023	Field Training	Product & Demo Training	Gokak	Offline
67	November	23/11/2023	Field Training	Product & Demo Training	Attara	Offline
68	November	29/11/2023	Field Training	Product & Demo Training	Kudlagi	Offline
69	November	29/11/2023	Field Training	Product & Demo Training	Kothanur	Offline
70	November	29/11/2023	Field Training	Product & Demo Training	Manvi	Offline
71	November	29/11/2023	Field Training	Product & Demo Training	Gulbarga	Offline
72	November	29/11/2023	Field Training	Product & Demo Training	Gola B	Offline
73	November	29/11/2023	Field Training	Product & Demo Training	Venkatapura	Offline
74	December	11/12/2023	Field Training	Product & Demo Training	Kuppinakeri	Offline
75	December	11/12/2023	Field Training	Product & Demo Training	Kurabdoddi	Offline
76	December	11/12/2023	Field Training	Product & Demo Training	Yallak Palli	Offline
77	December	11/12/2023	Field Training	Product & Demo Training	Baragur	Offline
78	December	13/12/2023	Field Training	Product & Demo Training	Doddinduvadi	Offline
79	December	1/12/2023	Field Training	Product & Demo Training	Shimogga	Offline
80	December	13/12/2023	Field Training	Product & Demo Training	Kalaburgi	Offline

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81	December	12/12/2023	Field Training	Product & Demo Training	Udagatti	Offline
82	December	13/12/2023	Field Training	Product & Demo Training	Bagalkot	Offline
83	December	13/12/2023	Field Training	Product & Demo Training	Nernahalli	Offline
84	December	13/12/2023	Field Training	Product & Demo Training	Baberu	Offline
85	December	14/12/2023	Field Training	Product & Demo Training	Nareni	Offline
86	December	15/12/2023	Field Training	Product & Demo Training	Atarra	Offline
87	December	16/12/2023	Field Training	Product & Demo Training	Kalinjer	Offline
88	December	17/12/2023	Field Training	Product & Demo Training	Atarra	Offline
89	December	18/12/2023	Online	POSH Awareness session	Google meet	Online
90	December	14/12/2023	Field Training	Product & Demo Training	Gumai	Offline
91	December	15/12/2023	Field Training	Product & Demo Training	Atarra	Offline
92	December	16/12/2023	Field Training	Product & Demo Training	Atarra	Offline
93	December	18/12/2023	Field Training	Product & Demo Training	Fatehganj ,atarra	Offline
94	December	19/12/2023	Field Training	Product & Demo Training	Atarra	Offline
95	December	20/12/2023	Field Training	Product & Demo Training	Atarra	Offline
96	December	21/12/2023	Field Training	Product & Demo Training	ATARRA	Offline
97	December	16/12/2023	Field Training	Product & Demo Training	Katni	Offline
98	December	20/12/2023	Field Training	Product & Demo Training	Mehandwani	Offline
99	December	21/12/2023	Field Training	Product & Demo Training	Mehandwani	Offline
100	December	22/12/2023	Field Training	Product & Demo Training	Niwas	Offline
101	December	26/12/2023	Field Training	Product & Demo Training	Patan	Offline
102	December	24/12/2023	Field Training	Product & Demo Training	Poon	Offline
103	December	28/12/2023	Field Training	Product & Demo Training	Waraseoni	Offline
104	December	29/12/2023	Field Training	Product & Demo Training	Waraseoni	Offline
105	December	29/12/2023	Field Training	Product & Demo Training	Manjusar	Offline
106	December	24/12/2023	Field Training	Product & Demo Training	Naraini	Offline
107	December	25/12/2023	Field Training	Product & Demo Training	Atarra	Offline
108	December	26/12/2023	Field Training	Product & Demo Training	Chitrakoot	Offline
109	December	25/12/2023	Field Training	Product & Demo Training	Gokak	Offline
110	December	28/12/2023	Field Training	Product & Demo Training	Malavalli	Offline
111	December	28/12/2023	Field Training	Product & Demo Training	Bettegowdanadod di	Offline
112	December	28/12/2023	Field Training	Product & Demo Training	Suleripalya	Offline
113	December	27/12/2023	Field Training	Product & Demo Training	Hebbal	Offline
114	December	27/12/2023	Field Training	Product & Demo Training	Ayazpur	Offline
115	December	21/12/2023	Field Training	Product & Demo Training	Madknahalli	Offline
116	December	22/12/2023	Field Training	Product & Demo Training	Ramanagara	Offline
117	January	8/1/2024	Field Training	Product & Demo Training	Mahantesh Nagara	Offline
118	January	6/1/2024	Field Training	Product & Demo Training	Holalu	Offline
119	January	6/1/2024	Field Training	Product & Demo Training	Hyarad	Offline
120	January	5/1/2024	Field Training	Product & Demo Training	Garakahalli	Offline
121	January	5/1/2024	Field Training	Product & Demo Training	Baad	Offline
122	January	5/1/2024	Field Training	Product & Demo Training	Rudrawadi	Offline
123	January	5/1/2024	Field Training	Product & Demo Training	Hirabannimatti	Offline
124	January	10/1/2024	Field Training	Product & Demo Training	KR Nagara	Offline
125	January	10/1/2024	Field Training	Product & Demo Training	Bidar	Offline
126	January	10/1/2024	Field Training	Product & Demo Training	Palya	Offline

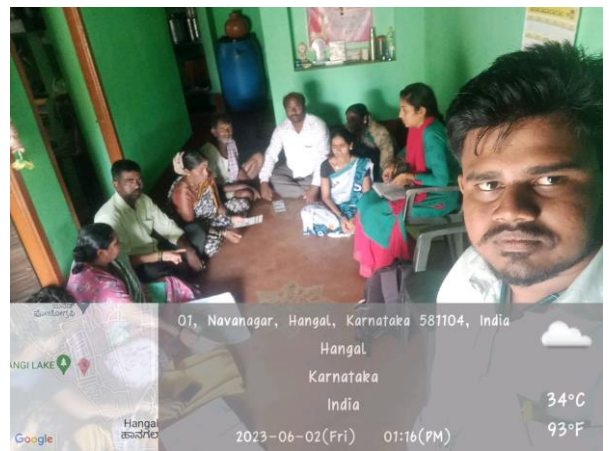
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127	January	10/1/2024	Field Training	Product & Demo Training	Krishna Kittur	Offline
128	January	12/1/2024	Field Training	Product & Demo Training	Komaranapura	Offline
129	January	12/1/2024	Field Training	Product & Demo Training	Bannikuppe	Offline
130	January	12/1/2024	Field Training	Product & Demo Training	Hosahalli	Offline
131	January	12/1/2024	Field Training	Product & Demo Training	Ainoli	Offline
132	January	12/1/2024	Field Training	Product & Demo Training	Jugul	Offline
133	January	13/01/2024	Field Training	Product & Demo Training	Seebi	Offline
134	January	13/01/2024	Field Training	Product & Demo Training	Belagavi	Offline
135	January	16/01/2024	Field Training	Product & Demo Training	Halkoda	Offline
136	January	16/01/2024	Field Training	Product & Demo Training	Swandenahalli	Offline
137	February	2/2/2024	Mom of Insurance Training & Yula Stove Training	Classroom Training	Hassan	Offline
138	February	1/2/2024	Field Training	Product & Demo Training	Hebbal	Offline
139	February	1/2/2024	Field Training	Product & Demo Training	Maishal	Offline
140	February	1/2/2024	Field Training	Product & Demo Training	Keroli	Offline
141	February	2/2/2024	Field Training	Product & Demo Training	Belagavi	Offline
142	February	3/2/2024	Field Training	Product & Demo Training	MAngasuli	Offline
143	February	3/2/2024	Field Training	Product & Demo Training	Hulikatte	Offline
144	February	3/2/2024	Field Training	Product & Demo Training	Koganur	Offline
145	February	4/2/2024	Field Training	Product & Demo Training	Kodihalli	Offline
146	February	5/2/2024	Field Training	Product & Demo Training	Harohalli	Offline
147	February	22/02/2024	Online Training	Personal Accidental Scheme	Google meet	Online
148	March	1/3/2024	Field Training	Unlock your potential	Dharwad	Offline
149	April	20/4/2024	Field Training	Field Officers Review Meeting	Hassan	Offline





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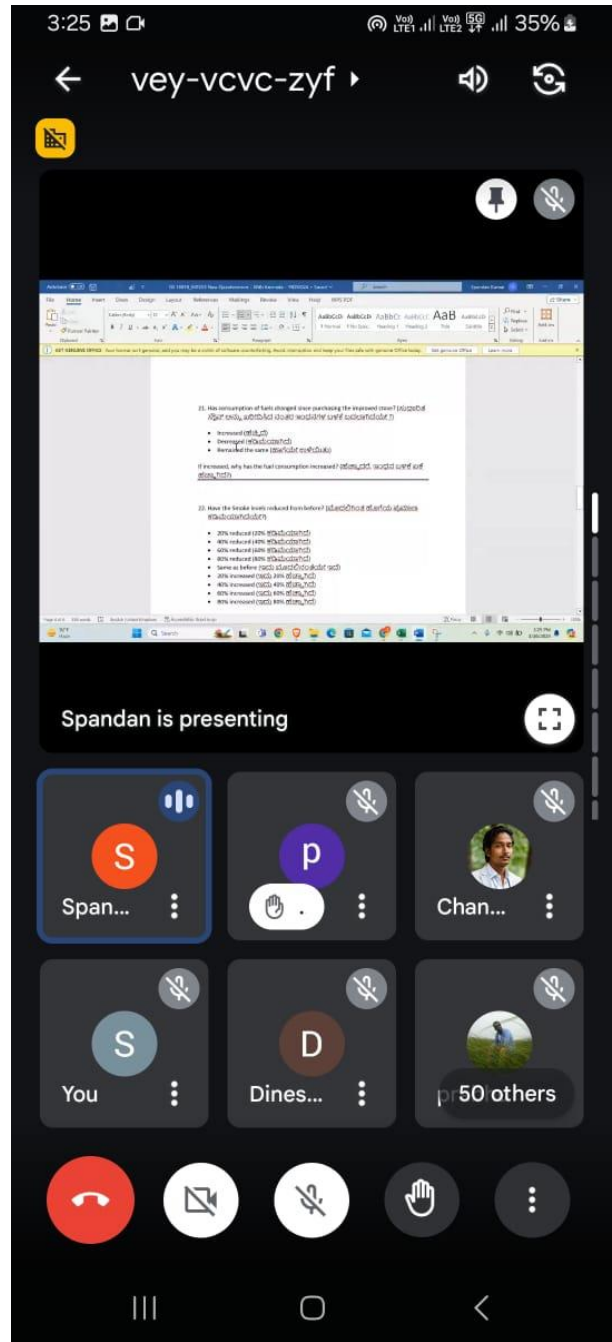
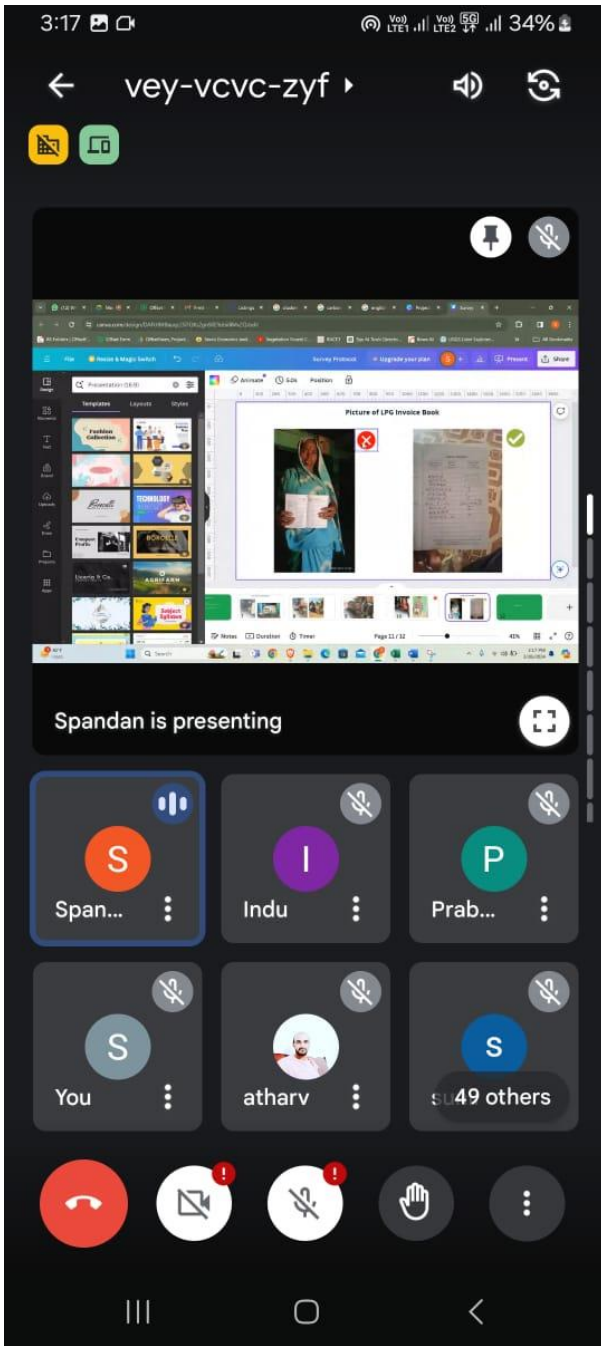


Figure 11 Trainings Conducted in Karnataka

SECTION D. DATA AND PARAMETERS

D.1. Data and parameters fixed ex ante or at renewal of crediting period

>>

Data/parameter	NCV _{biomass}
Unit	TJ/tonne
Description	Net calorific value of the non-renewable woody biomass that is substituted
Source of data	approved methodology AMS II.G/v12
Value(s) applied	0.0156
Choice of data or Measurement methods and procedures	Not applicable
Purpose of data	Baseline emission calculation
Additional comment	Not Applicable

Data/parameter	$B_{old,HH}$
Unit	Tonnes/household/year
Description	Quantity of woody biomass used per HH in the absence of the project activity
Source of data	Baseline Survey
Value(s) applied	3.83
Choice of data or Measurement methods and procedures	Baseline Survey
Purpose of data	Baseline emission calculation
Additional comment	This parameter shall remain fixed for the crediting period.

Data/parameter	η_{old}
Unit	Percentage
Description	Efficiency of the system being replaced (Traditional Cooking Stoves). The cookstoves are designed for using wood as fuel and is not compatible with charcoal
Source of data	approved methodology AMS II.G/v12
Value(s) applied	10%
Choice of data or Measurement methods and procedures	The default value of 0.10 is used as the replaced system is a three stone fire, or a conventional device with no improved combustion air supply or flue gas ventilation, i.e. without a grate or a chimney.
Purpose of data	Calculation of share of non-renewable biomass
Additional comment	This parameter shall remain fixed for the crediting period.

Data/parameter	$f_{NRB,y}$
Unit	Percentage
Description	Fraction of woody biomass saved by the project activity in year y that can be established as non-renewable biomass
Source of data	State of forest report 2011
Value(s) applied	93.66%

Choice of data or Measurement methods and procedures	FSI report 2011 is the most recent nationally acceptable report, providing information on fuelwood production and usage in India and its states
Purpose of data	Baseline Emission calculation
Additional comment	This parameter shall remain fixed for the crediting period.

Data/parameter	EFprojected_fossilfuel
Unit	tCO ₂ /TJ
Description	Emission factor for the substitution of non-renewable woody biomass by similar consumers.
Source of data	approved methodology AMS II.G/v12
Value(s) applied	64.40
Choice of data or Measurement methods and procedures	The value represents the emission factor of the substitution fuels likely to be used by similar users, on a weighted average basis. The value is calculated, based on the global average ratio of cooking fuels (the normalized ratio of kerosene and liquefied petroleum gas (LPG) excluding coal), i.e. 9 per cent for kerosene (71.5 t CO ₂ /TJ) and 91 per cent for LPG (63.0 t CO ₂ /TJ)
Purpose of data	Baseline Emission calculation
Additional comment	This parameter shall remain fixed for the crediting period.

Data/parameter	LEy
Unit	Fraction
Description	Net to Gross adjustment factor
Source of data	approved methodology AMS II.G/v12
Value(s) applied	0.95
Choice of data or Measurement methods and procedures	Default value as prescribed by methodology applied
Purpose of data	Baseline Emission calculation
Additional comment	This parameter shall remain fixed for the crediting period.

Data/parameter	$S_{install}$
Unit	Number
Description	Number of stoves installed
Source of data	CME Data Based
Value(s) applied	15,500/VPA (for VPA 1-033) 8,143 (For VPA#034 till the end of monitoring period) Total = 519,643
Choice of data or Measurement methods and procedures	NA

Purpose of data	SDG3 monitored
Additional comment	It will be fixed for the crediting period

D.2 Data and parameters monitored

>>

Data / Parameter	$N_{y,i,a}$
Unit	Number
Description	Number of project devices of type i and age a that are operating in year y
Source of data	ICS users' survey
Value(s) applied	515,859
Measurement methods and procedures	The information on the number of devices operational is determined by the ICS users' survey through monitoring of the user households drawn as random sample.
Monitoring frequency	Annually/Biennial (Refer the temporary deviation)
QA/QC procedures	During the annual users' survey, survey team will inspect representative sample households to check if the devices are operating or not. Sample for this survey will be drawn as per the "Guidelines for sampling and surveys for CDM project activities and programme of activities, version 04".
Purpose of data	Emission reduction calculation
Additional comment	For the determination of ex-ante emission reductions 100% usage rate is considered for simplification, for ex-post the actual discount will be considered into

	calculation and discount will be monitored through sampling)
--	--------------------------------------------------------------

Data / Parameter	$\eta_{new,i,j}$
Unit	Fraction
Description	Efficiency of the device (Stove) of each type i and batch j implemented as part of the project activity
Source of data	WBT Sample results/ default schedule of linear decrease in efficiency up to the terminal efficiency of 20% per para 37(a) of AMS II G ver 12
Value(s) applied	35.92 %
Measurement methods and procedures	Efficiency based on water boiling test (WBT) considered. The WBT carried out in accordance with the WBT Protocol listed by Clean Cooking Alliance.
Monitoring frequency	Annual/Biennial (Refer the temporary deviation)
QA/QC procedures	All
Purpose of data	The monitored value of this parameter used in the determination of the ex-post emission reduction.
Additional comment	Calibrated instruments used for the WBT determination. Competent personnel carried out the WBT tests. Refer the ER spreadsheet for the details of WBT carried out.

Data / Parameter	μ_y
Unit	Fraction
Description	Adjustment to account for any continued use of pre-project devices during the year y
Source of data	Biennial User survey results
Value(s) applied	0.857
Measurement methods and procedures	Surveys conducted since the use of data loggers to record the continued operation of baseline devices is not practical, because the baseline device is the three-stone fire.
Monitoring frequency	At least once every two years (biennial)
QA/QC procedures	Trained staff was deputed on site and software used to record all the surveys.
Purpose of data	For baseline emission
Additional comment	NA

Data / Parameter	Life Span
Unit	Number of years
Description	The operating lifetime of the project device. The life span should be reported in case where the PP are opting to account the efficiency loss as per paragraph 37.

Source of data	Manufacturer (certified by a national standards body or an appropriate certifying agent recognized by that body)
Value(s) applied	7
Measurement methods and procedures	NA
Monitoring frequency	Fixed and recorded at the time of commissioning/distribution
QA/QC procedures	NA
Purpose of data	Emission reduction calculation if using efficiency loss as per paragraph 37.
Additional comment	This efficiency dropdown is not considered during the monitoring period. Therefore, not applicable.

Data / Parameter	Date of commissioning of project device i
Unit	Date
Description	Actual date of commissioning of the project device
Source of data	Internal records
Value(s) applied	Refer the ER sheet for details.
Measurement methods and procedures	Sales records
Monitoring frequency	Fixed and recorded at the time of commissioning/distribution
QA/QC procedures	NA
Purpose of data	Emission reduction calculation
Additional comment	NA

Data / Parameter	$N_{d,HH}$
Unit	Number
Description	Number of project devices distributed per household
Source of data	Internal records
Value(s) applied	1
Measurement methods and procedures	Sales records
Monitoring frequency	Recorded at the time of commissioning/distribution of project devices
QA/QC procedures	NA
Purpose of data	Emission reduction calculation
Additional comment	NA

Data / Parameter	Air Quality
Unit	Qualitative (%)
Description	Users' perception on smoke reduction and Incidence of disease: perceived smoke levels, incidence of coughing, incidence of respiratory illness, Incidence of itchy eyes
Source of data	Monitoring survey

<p>Value(s) applied</p>	<p>The survey was developed to capture the results and the following results were concluded.</p> <table border="1" data-bbox="550 324 1396 712"> <thead> <tr> <th data-bbox="550 324 730 517">Smoke Levels Reduction</th> <th data-bbox="730 324 917 517">Incidence of coughing Reduction</th> <th data-bbox="917 324 1201 517">Incidence of difficulty in breathing Reduction</th> <th data-bbox="1201 324 1396 517">Incidence of itchy eyes Reduction</th> </tr> </thead> <tbody> <tr> <td data-bbox="550 517 730 712">53%</td> <td data-bbox="730 517 917 712">54%</td> <td data-bbox="917 517 1201 712">53%</td> <td data-bbox="1201 517 1396 712">54%</td> </tr> </tbody> </table>	Smoke Levels Reduction	Incidence of coughing Reduction	Incidence of difficulty in breathing Reduction	Incidence of itchy eyes Reduction	53%	54%	53%	54%
Smoke Levels Reduction	Incidence of coughing Reduction	Incidence of difficulty in breathing Reduction	Incidence of itchy eyes Reduction						
53%	54%	53%	54%						
<p>Measurement methods and procedures</p>	<p>Air quality will be assessed through users interviews during the ICS User Survey. Observations as to inside/outside cooking area to confirm answers. During the survey HH users will be interviewed for the number of diseases caused by the smoke and also the number of times they (HH) visit hospitals for treatment related to breathing problems in the monitoring year.</p>								
<p>Monitoring frequency</p>	<p>Annually/Biennial (Refer the temporary deviation)</p>								
<p>QA/QC procedures</p>	<p>NA</p>								
<p>Purpose of data</p>	<p>Sustainable Development Assessment.</p>								
<p>Additional comment</p>	<p>-</p>								

Data / Parameter	Gender Equality: Number of Hours
Unit	Hours
Description	Time Saving per household in collecting fuelwood
Source of data	Monitoring Survey
Value(s) applied	2.33 hours ¹
Measurement methods and procedures	Number of hours consumed in collecting fuelwood will be quantified through ICS user survey.
Monitoring frequency	Annual/Biennial (Refer the temporary deviation)
QA/QC procedures	NA
Purpose of data	Sustainable Development Assessment
Additional comment	NA

¹ Average of all monitored values

Data / Parameter	Access to affordable and improved energy services
Unit	Numbers
Description	Number of ICS under the project
Source of data	Commissioning records
Value(s) applied	515,859
Measurement methods and procedures	Sample survey to confirm if project ICS are operational. Operational status will confirm that the users are accessed to affordable and improved energy
Monitoring frequency	Annually
QA/QC procedures	N/A
Purpose of data	Sustainable Development Assessment.
Additional comment	NA

Data / Parameter	Number of employments generated (Ne)
Unit	Numbers
Description	Full and productive employment and decent work for all women and men, including for young people and persons with disabilities, and equal pay for work of equal value.
Source of data	Employment records
Value(s) applied	For VPA 2 to 15: 101 For VPA 16 to 34: 115

Measurement methods and procedures	The HR records
Monitoring frequency	Annually
QA/QC procedures	N/A
Purpose of data	Sustainable Development Assessment.
Additional comment	NA

Data / Parameter	Number of cylinders used per household
Unit	Numbers
Description	Number of times the LPG user refilled the cylinder in a year
Source of data	Monitoring survey records
Value(s) applied	1.54
Measurement methods and procedures	Monitoring surveys
Monitoring frequency	Annually
QA/QC procedures	N/A
Purpose of data	To estimate the usage of LPG in ER calculation
Additional comment	NA

Data / Parameter	Number of meals cooked on LPG stove in a week
Unit	Numbers
Description	Households using LPG stoves were surveyed to provide details on the number of meals they cook using LPG.

Source of data	Monitoring survey records
Value(s) applied	1.20
Measurement methods and procedures	Monitoring surveys
Monitoring frequency	Annually
QA/QC procedures	N/A
Purpose of data	To estimate the usage of LPG in ER calculation
Additional comment	NA

D.3. Comparison of monitored parameters with last monitoring period

Data/Parameter	Value obtained in this monitoring period	Value obtained last monitoring period
$N_{y,I,a}$	515,859	396,834
$\eta_{new,I,j}$	35.92%	36.63 %
μ_y	0.857	0.918
Life Span	7	7
Date of commissioning of project device i	Refer the ER sheet (No change in dates for the VPAs part of previous monitoring)	Refer the ER sheet
$N_{d,HH}$	1	1
Air Quality	53% reductions	53% reductions
Gender Equality: Number of Hours	2.33 (Hours saved)	2.62(Hours saved)
Access to affordable and improved energy services	515,859	396,834

Number of employments generated (Ne)	For VPA 2 to 15: 101 For VPA 16 to 34: 115	For VPA 2 to 15: 101 For VPA 16 to 34: 115
-----------------------------------------	-----------------------------------------------	-----------------------------------------------

D.4. Implementation of sampling plan

>>

Due to the large number of ICS installed under the projects it was not economically feasible to monitor each individual ICS unit installed, therefore, a representative sampling was undertaken as part of grouped project Sampling Plan. The Sampling Standard version 07.0 (paragraph 22) mandates application of 95/10 for the biennial survey and 90/10 confidence/precision for the annual frequency.



Figure 12 Customer with ICS

The objective of the sampling was to obtain an unbiased and reliable estimate of the proportion or mean value of the following parameters over the course of the monitoring period, and with 95/10 confidence/precision. The sampling plan consist of monitoring the following parameters as mentioned below:

S.No.	Monitoring Parameter	Description of Monitoring Parameter
1.	$N_{y,I,j}$	Number of project devices of type I and batch j operating during year y
2.	μ_y	Adjustment to account for any continued use of pre-project devices during the year y
3.	$\eta_{new,I,j}$	Efficiency of the project device of each type I and batch j

The target population is the total ICS population served under the grouped project (and covered under the monitoring report), and the sampling frame consists of aggregated data of end-users of the ICS as recorded in the project Databases. The sampling was conducted using simple random sampling technique over the sampling frame for each voluntary project activities (VPAs). The ICS in the sampling frame were stratified by ICS vintage (Year 1, 2, 3 and 4). The sample size was calculated as per the CDM. The expected parameter values (mean, standard deviation and proportion) have been determined based on project developer's knowledge and experience as per para 12(b) and 12(c) of the Sampling and surveys for CDM project activities and programmes of activities, Version 09.0. The summary is provided below:

The sample size Is determined using the following formulas:

$$n \geq \frac{z^2 * N * V}{(N - 1) * precision^2 + z^2 * V}$$

Where,

n = number of ICS to be sampled

N = Total number of ICS in the population

Z = Constant referring to level of confidence (1.96 for 95 % confidence)

Precision = Required precision (e.g. 10% = 0.1)

For Proportion based parameters (N_y, I, j and μ_y)

$$V = \frac{SD^2}{p^2}$$

Where:

$$SD^2 = \frac{\sum_{i=1}^k g_i * p_i * (1 - p_i)}{N}$$

$$p = \frac{\sum_{i=1}^k g_i * p_i}{N}$$

Where,

g_i = weight of strata I in the population

p_i = expected proportion of strata I in the population

k = total number of strata in the population

For Mean based parameters (η_y, I, j)

$$V = \left(\frac{SD}{Mean} \right)^2$$

Where

$$SD^2 = \frac{\sum_{i=1}^k g_i * SD_i^2}{N}$$

$$Mean = \frac{\sum_{i=1}^k g_i * m_i}{N}$$

Where

Sdi = expected standard deviation of strata I in the population

mi = expected mean of strata I in the population

The outcome of sampling is presented below and demonstrated in the ER sheet in detail.

Sampling Constants	Values
Monitoring period start	01-06-2023
Monitoring period end	31-05-2024
Level of Sampling	PoA
Confidence (%) (90 or 95)	95%
Margin of Error (%)	10%
Z value	1.960

Monitoring Parameter	Stove Efficiency $\eta_{new,i,j}$					
Sampling Frame requirement as per PoA-DD	Given stove model and vintage population					
Sampling approach	Simple random sampling across vintage					
Sampling Population (i)	Batch (j)	Sampling frame size	Expected Mean Efficiency (%)	Expected SD	Calculated Sample Size	
1	2020-2021 (Vintage 4)	110771	35.0	2.7	2	
2	2021-2022 (Vintage 3)	118803	36.0	2.7	2	
3	2022-2023 (Vintage 2)	167560	37.0	3.7	3	
4	2023-2024 (Vintage 1)	122509	38.0	3.8	2	
Sample size determination						
Estimated efficiency (mean)					36.58	
Estimated Standard Deviation of efficiency (SD)					3.32	
$V_{mean} = (SD/mean)^2$					0.01	
Minimum Sample Size required (efficiency)					4	
tDistribution sample size adjustment				Iteration 1	9	
				Iteration 2	5	
				Iteration 3	7	
				Iteration 4	5	
				Iteration 5	7	
				Iteration 6	5	
Monitoring results						
Sampling Population (i)	Batch (j)	Sampling frame size	Monitored Sample Size	Monitored Efficiency (%)	Monitored Standard Deviation	Weighted average Efficiency
1	2020-2021 (Vintage 4)	110771	4	34.10%	0.82%	35.92%
2	2021-2022 (Vintage 3)	118803	5	35.22%	1.07%	
3	2022-2023 (Vintage 2)	167560	6	36.32%	0.59%	
4	2023-2024 (Vintage 1)	122509	5	37.68	1.43%	
Reliability Check						
Samples Monitored					20	
Mean Efficiency					35.94%	
Standard error of mean					0.22%	
Relative precision (Margin of error) (%)					0.04%	
Result					Ok, reliability level met	
Lower Bound confidence value					Not applicable	

Monitoring parameter(s)		Stove Operating Fraction for determination of $N_{y,i,j}$		
Sampling frame(s)		Given stove model and vintage population		
Sampling approach		Stratified random sampling across stove model and vintage		
Sampling Population (i)	Vintage (j)	Stove population	Expected operational proportion (SoF)	Calculated Sample Size (n)
1	2020-2021 (Vintage 4)	110771	0.95	7
2	2021-2022 (Vintage 3)	118803	0.95	7
3	2022-2023 (Vintage 2)	167560	0.95	10
4	2023-2024 (Vintage 1)	122509	0.95	8
Sample size determination				
Estimated SOF (p)				0.95
Estimated Standard Deviation of SOF (SD)				0.218
$V_{SO\text{F}} = (SD/p)^2$				0.053
Sample Size required (SOF)				30
Monitoring results				
Sampling Population (Batch)	Sampling frame size	Monitored Sample Size ($n_{i,j,\text{total}}$)	Operational Sample ($n_{i,j,\text{operational}}$)	Monitored Operating Fraction ($n_{i,j,\text{operational}}/n_{i,j,\text{total}}$)
2020-2021 (Vintage 4)	110771	60	59	0.98
2021-2022 (Vintage 3)	118803	58	57	0.98
2022-2023 (Vintage 2)	167560	81	81	1.00
2023-2024 (Vintage 1)	122509	73	73	1.00
Reliability Check				
Samples Monitored			272	
SoF Measured			0.99	
Standard Error of SoF			0.53%	
Relative precision (Margin of error)			1.04%	
Result			Ok, reliability level met	
Lower Bound confidence value			Not applicable	
Adjustment to account for any continued use of pre-project devices during the year $y - \mu y$				
Monitoring parameter(s)				
Sampling frame(s)		Given stove model population		
Sampling approach		Stratified random sampling across stove models		

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Sampling Population (i)	Stove population	Expected value	Calculated Sample Size (n)
2020-2021 (Vintage 4)	110771	0.90	10
2021-2022 (Vintage 3)	118803	0.90	10
2022-2023 (Vintage 2)	167560	0.90	14
2023-2024 (Vintage 1)	122509	0.90	11
Estimated results based sample size determination			
Estimated utilization (p)			0.90
$V_{\text{utilization}} = p(1-p)/p^2$			0.11
Minimum Sample Size required (days of utilization)			43
Monitoring results			
Sampling Population	Sampling frame size	Monitored Sample Size	Monitored Utilization
2020-2021 (Vintage 4)	110771	60	0.86
2021-2022 (Vintage 3)	118803	58	0.86
2022-2023 (Vintage 2)	167560	81	0.85
2023-2024 (Vintage 1)	122509	73	0.86
Reliability Check			
Samples Monitored			272
Utilization Measured			0.86
Standard Error of Utilization			2.13%
Relative precision (Margin of error)			4.88%
Result			Ok, reliability level met
Lower Bound confidence value			Not applicable

SECTION E. CALCULATION OF SDG IMPACTS

E.1. Calculation of baseline value or estimation of baseline situation of each SDG Impact

>>

The emission reductions are calculated as follows:

As per the registered VPA PDDs/PoA DD, emission reductions for both the scenarios have been calculated as per the following formulas given in the applicable meth, AMS-II.G. version 12.0;

$$ER_y = \sum_i \sum_j ER_{y,i,j} - LE_y$$

Where

i	=	Indices for the situation where more than one type of project device is introduced to replace the pre-project devices ²
j	=	Indices for the situation where there is more than one batch of project device
ER_y	=	Emission reductions during year y in t CO ₂ e
$ER_{y,i,j}$	=	Emission reductions by project device of type i and batch j during year y in t CO ₂ e
LE_y	=	Leakage emissions in the year y

Where

$$ER_{y,i,j} = B_{y,savings,i,j} \times N_{y,i,j} \times \mu_y \times f_{NRB,y} \times NCV_{biomass} \times EF_{projected_fossil\ fuel}$$

Where

² For example, in some instances, full replacement of the pre-project device would require the implementation of more than one project device (e.g. one stove suitable for cooking and the other stove suitable for cooking/boiling water)

$B_{y,savings,i,j}$	=	Quantity of woody biomass that is saved in tonnes per cook stove device of type i and batch j during year y
$f_{NRB,y}$	=	Fraction of woody biomass that can be established as non-renewable biomass using survey methods or government data or default country specific fraction of non-renewable woody biomass (fNRB) values available on the CDM website
$NCV_{biomass}$	=	Net calorific value of the non-renewable woody biomass that is substituted (IPCC default for wood fuel, 0.015 TJ/tonne, based on the gross weight of the wood that is 'air-dried')
$EF_{projected_fossilfuel}$	=	Emission factor for the fossil fuels projected to be used for substitution of non-renewable woody biomass by similar consumers. Use a value of 64.40 t CO ₂ /TJ
$N_{y,i,j}$	=	Number of project devices of type i and batch j operating during year y
μ_y	=	Adjustment to account for any continued use of pre-project devices during the year y when applying equations 6 (fraction).

$$B_{y,savings,i,j} = B_{old,i,j} \times \left(1 - \frac{\eta_{old,i,j}}{\eta_{new,i,j}} \right)$$

Where

$B_{old,i,j}$	=	Annual quantity of woody biomass that would have been used in the absence of the project activity to generate useful thermal energy equivalent to that provided by the project device type i and batch j
$\eta_{new,i,j}$	=	Efficiency of the device of each type i and batch j implemented as part of the project activity.

$\eta_{old,i,j}$ = Efficiency of pre - project device, which is a three-stone fire using firewood (not charcoal), or a conventional device with no improved combustion air supply or flue gas ventilation, that is without a grate or a chimney;

$$B_{old,i,j} = B_{old,HH} = B_{old,p} \times N_{p,HH}$$

Where

$B_{old,HH}$ = Annual quantity of woody biomass that would have been used in the household in the absence of the project activity to generate useful thermal energy equivalent to that provided by the project devices

$B_{old,p}$ = Annual quantity of woody biomass that would have been used per person in the household in the absence of the project activity to generate useful thermal energy equivalent to that provided by the project devices

$N_{p,HH}$ = Average number of persons served per household prior to the project implementation

Data Ex Ante	Unit	Value	Source
$B_{old,i,j} = B_{old,HH}$	tonnes/household/ year	3.83	VPA DD
$f_{NRB,y}$	Fraction	0.9366	VPA DD
$E_{f_{project_fossil\ fuel}}$	tCO _{2e} /TJ	64.40	VPA DD
LAF_y	Fraction	0.95	VPA DD
$NCV_{biomass}$	TJ/tonne	0.0156	VPA DD
$\eta_{old,I,jfirewood}$	Percentage	10.00%	VPA DD
Data Ex Post	Unit	Value	Source
$S_{installed}$	Number	519643	ICS Installation database
η_{new}	Percentage	35.92%	Efficiency test records and results
$B_{saving,}$	Tonnes/year	2.76	Calculated
μ_y	fraction	0.857	Monitoring survey records
$N_{y,I,a}$	Number	5,15,859	Number of project devices of type i and age a that are operating in year y
Factors used for Ex-ante Estimations	Value		
μ_y	1.0		
$N_{y,i,a}$	527,000		
$B_{y_{saving}}$ (Ex-ante)	2.82		
Common Multiplier for VPA wiser ER Calculation	2.21		

Ex-post: VPA wise ER calculation for the total ERs from 1st May 2023 to 31st May 2024, refer ER spreadsheet for the details:

VPAs	2023	2024	Total ER (Ex-post, per VPA)
VPA 1	23006	14234	37240
VPA 2	23006	14234	37240
VPA 3	23006	14234	37240
VPA 4	23006	14234	37240
VPA 5	23006	14234	37240
VPA 6	23006	14234	37240
VPA 7	23006	14234	37240
VPA 8	23006	14234	37240
VPA 9	23006	14234	37240
VPA 10	23006	14234	37240
VPA 11	23006	14234	37240
VPA 12	23006	14234	37240
VPA 13	23006	14234	37240
VPA 14	23006	14234	37240
VPA 15	23006	14234	37240
VPA 16	23006	14234	37240
VPA 17	23006	14234	37240
VPA 18	23006	14234	37240
VPA 19	23006	14234	37240
VPA 20	23006	14234	37240
VPA 21	23006	14234	37240
VPA 22	23006	14234	37240
VPA 23	23006	14234	37240
VPA 24	23006	14234	37240
VPA 25	29410	14234	43644
VPA 26	25308	14234	39542
VPA 27	19432	14234	33666
VPA 28	16167	14234	30401
VPA 29	13954	14234	28188
VPA 30	11515	14234	25749
VPA 31	9193	14234	23427
VPA 32	6809	14234	21043
VPA 33	3183	14234	17417
VPA 34	9	5784	5793
Total	687124	475506	1162630

Ex-Post: ERs VPA wise breakup under the monitoring period 1st June 2023 to 31st May 2024 with stove age in each calendar year and numbers of ICS, refer ER spreadsheet for the details:

VPAs	2023	2024
1	20095	14234

2	20095	14234
3	20095	14234
4	20095	14234
5	20095	14234
6	20095	14234
7	20095	14234
8	20095	14234
9	20095	14234
10	20095	14234
11	20095	14234
12	20095	14234
13	20095	14234
14	20095	14234
15	20095	14234
16	20095	14234
17	20095	14234
18	20095	14234
19	20095	14234
20	20095	14234
21	20095	14234
22	20095	14234
23	20095	14234
24	20095	14234
25	20096	14234
26	20096	14234
27	19230	14234
28	16167	14234
29	13954	14234
30	11515	14234
31	9193	14234
32	6809	14234
33	3183	14234
34	9	5784
Total	602532	475506

During the previous monitoring period (29th April 2022 to 31st May 2023), there was an oversight in the calculation of emission reductions (ERs). The ERs were mistakenly accounted for only up to 30th April 2023, omitting the reductions for the entire month of May 2023. To rectify this, the missing ERs have been incorporated into the current monitoring period (1st June 2023 to 31st May 2024). The total amount of credits adjusted is 84,592 tCO₂e, as detailed in the ER spreadsheet. The table below provides the breakdown of ERs for the month of May 2023 by each VPA.

VPA:	2023
VPA 1	2911

VPA 2	2911
VPA 3	2911
VPA 4	2911
VPA 5	2911
VPA 6	2911
VPA 7	2911
VPA 8	2911
VPA 9	2911
VPA 10	2911
VPA 11	2911
VPA 12	2911
VPA 13	2911
VPA 14	2911
VPA 15	2911
VPA 16	2911
VPA 17	2911
VPA 18	2911
VPA 19	2911
VPA 20	2911
VPA 21	2911
VPA 22	2911
VPA 23	2911
VPA 24	2911
VPA 25	9314
VPA 26	5212
VPA 27	202
VPA 28	0
VPA 29	0
VPA 30	0
VPA 31	0
VPA 32	0
VPA 33	0
VPA 34	0
Total	84592

For SDG other than SDG-13

SDG-3: Good Health and Well Being	Mortality rate attributed to household and ambient air pollution	100%	Due to poor indoor air quality and due to the higher volume of smoke.
SDG-5: Gender Equality	Time spent collecting fuelwood from the forests and for cooking.	4.38 hours	collecting firewood Hours/week/HH
SDG 7- Affordable and Clean energy	Number of project households predominantly using clean cooking devices such as Improved Cook Stoves	0	Households
SDG 8- Promote sustained, inclusive and sustainable economic growth, full and productive employment and decent work for all	Number of employments generated (Ne)	0	Persons

E.2. Calculation of project value or estimation of project situation of each SDG Impact

>>

For SDG other than SDG-13

SDG#13	Emission Reduction	0	Due to improved Energy Efficiency.
SDG-3: Good Health and Well Being	Mortality rate attributed to household and ambient air pollution	53%	Smoke reduction.
SDG-5: Gender Equality	Time spent collecting fuelwood from the forests and for cooking.	2.33 hours	collecting firewood Hours/week/H H
SDG 7- Affordable and Clean energy	Number of project households	515,859	Households

	predominantly using clean cooking devices such as Improved Cook Stoves		
SDG 8- Promote sustained, inclusive and sustainable economic growth, full and productive employment and decent work for all	Number of employments generated (Ne)	For VPA 2 to 15: 101 For VPA 16 to 34: 115	Persons

E.3. Calculation of leakage

>> N/A (Leakage is already accounted in baseline emission as 5% in accordance with the methodology)

E.4. Calculation of net benefits or direct calculation for each SDG Impact

SDG	SDG Impact	Baseline estimate	Project estimate	Net benefit
-----	------------	-------------------	------------------	-------------

13	Emission Reduction	1162630	0	1162630 ³
3	Mortality rate attributed to household and ambient air pollution	0	53%	53% decrease in smoke level.
7	Number of project households predominantly using clean cooking devices such as Improved Cook Stoves	0	515,859	515,859 Households
8	Number of employments generated (Ne)	0	110	For VPA 2 to 15: 101 Persons For VPA 16 to 34: 115 Persons
5	Time spent collecting fuelwood from the forests and for cooking.	4.38 Hours (As per the survey undertaken during the VPA inclusions)	2.05 Hours	2.33Hours/week/HH

³This is the total ERs calculated from 1st May 2023 to 31st May 2024. The breakup for the ERs are:
For MP 1st June 2023 to 31st May 2023: 1,078,038 tCO₂e
For missed ERs for month of May 2023: 84592 tCO₂e
Refer to ER sheet for detailed information.

E.5. Comparison of actual SDG Impacts with estimates in approved PDD

SDG	Values estimated in ex ante calculation of approved PDD for this monitoring period			Actual values ⁴ achieved during this monitoring period				
13			ERy (Ex-ante, total per VPA)				Total ER (Ex-post, per VPA)	
	2023	2024		VPA	2023	2024		
		27607	17081	44688	VPA 1	23006	14234	37240
		27607	17081	44688	VPA 2	23006	14234	37240
		27607	17081	44688	VPA 3	23006	14234	37240
		27607	17081	44688	VPA 4	23006	14234	37240
		27607	17081	44688	VPA 5	23006	14234	37240
		27607	17081	44688	VPA 6	23006	14234	37240
		27607	17081	44688	VPA 7	23006	14234	37240
		27607	17081	44688	VPA 8	23006	14234	37240
		27607	17081	44688	VPA 9	23006	14234	37240
		27607	17081	44688	VPA 10	23006	14234	37240
		27607	17081	44688	VPA 11	23006	14234	37240
		27607	17081	44688	VPA 12	23006	14234	37240
		27607	17081	44688	VPA 13	23006	14234	37240
		27607	17081	44688	VPA 14	23006	14234	37240
		27607	17081	44688	VPA 15	23006	14234	37240
		27607	17081	44688	VPA 16	23006	14234	37240
		27607	17081	44688	VPA 17	23006	14234	37240
		27607	17081	44688	VPA 18	23006	14234	37240
		27607	17081	44688	VPA 19	23006	14234	37240
		27607	17081	44688	VPA 20	23006	14234	37240
		27607	17081	44688	VPA 21	23006	14234	37240
		27607	17081	44688	VPA 22	23006	14234	37240
		27607	17081	44688	VPA 23	23006	14234	37240
		27607	17081	44688	VPA 24	23006	14234	37240
		35291	17081	52372	VPA 25	29410	14234	43644
		30369	17081	47450	VPA 26	25308	14234	39542
	23318	17081	40398	VPA 27	19432	14234	33666	
	19400	17081	36481	VPA 28	16167	14234	30401	

⁴ Whenever emission reductions are capped, both the original and capped values used for calculations must be transparently reported. Use brackets to denote original values.

	16745	17081	33825		VPA 29	13954	14234	28188
	13818	17081	30898		VPA 30	11515	14234	25749
	11032	17081	28113		VPA 31	9193	14234	23427
	8171	17081	25252		VPA 32	6809	14234	21043
	3820	17081	20900		VPA 33	3183	14234	17417
	22	13212	13234		VPA 34	9	5784	5793
	824551	576878	1401429		Total	68712	4	475506
								1162630
3	70%			53% (Number decreased due to continue use of baseline practices observed)				
7	527,000Households			515,859 Households				
8	390 Persons			For VPA 2 to 15: 101 Persons For VPA 16 to 34: 115 Persons (The employments in future will be increased up to the target)				
5	1.15 hrs			2.33 Hours (Based on the survey results, refer the ER spreadsheet for the survey details)				

E.5.1. Explanation of calculation of value estimated ex ante calculation of approved PDD for this monitoring period

>>The ex-ante ERs for SDG 13 were calculated based on the equivalent stove year in actual case, and the number of stoves to be planned along with the value of N_y and μ_y assumed during the validation. The calculation is demonstrated in ER spreadsheet.

E.6. Remarks on increase in achieved SDG Impacts from estimated value in approved PDD

>>There is no increase in SDGs in ex-post scenario, except SDG#005, the reason is the VPA DDs the assumptions were made during the first VPA design certification and rest VPAs followed the same. In the performance review the actual survey undertaken by CME to calculate the baseline and project scenario for time calculation, therefore the actual results were found higher and also realistic.

The actual emission reductions are lesser as compared to ex-ante calculation on the registered PDD, due to correction factor applied for the continual use of baseline by few of the sampled households. The calculation is demonstrated in ER sheet.

SECTION F. SAFEGUARDS REPORTING

>> A grievance redress mechanism is integrated into the system to ensure continuous quality service delivery to end users/consumers. Here, the grievance redress team endeavors to resolve usage and safety-related issues associated with the product/project technology. All customer product-related queries are initially recorded upon receipt. Subsequently, based on potential solutions, customers are advised accordingly, and if necessary, the technical team visits the customer's household to ensure smooth grievance redressal.

To facilitate customers in expressing their concerns, contact points for the technology supplier are imprinted on the sales receipt. If the technology supplier team fails to provide a resolution, CME's Carbon team approaches the customers as the next step in the grievance redress mechanism.

The customer can contact the technology supplier team. Once they resolve the issue, the case is closed. If they are unable to resolve it, the grievance is escalated to the PP team for addressal. However, this occurs rarely, as most issues are resolved at the technology supplier's end itself.

SECTION G. STAKEHOLDER INPUTS AND LEGAL DISPUTES

G.1. List all Inputs and Grievances which have been received via the Continuous Input and Grievance Mechanism together with their respective responses/mitigations.

>> CME has established a procedure for grievance redressal and for seeking feedback/grievances from stakeholders contacting the end users on a regular basis to ensure the proper functioning of cookstoves, takes feedback to address grievances, and adds more users by spreading awareness. No grievances or complaints were received during the monitoring period. The grievance redressal procedure has been submitted to the VVB along with records indicating no grievances.

G.2. Report on any stakeholder mitigations that were agreed to be monitored.

>> Not Applicable

G.3. Provide details of any legal contest that has arisen with the project during the monitoring period

>> No inputs or grievances have been received. A grievance redress mechanism is established within the system to ensure continuous quality service delivery to end users/consumers. Here, the grievance redress team endeavours to resolve usage and safety-related issues associated with the product/project technology. Complaints and feedback are received through dedicated lines, email, and the supplier network.

Revision History

Version	Date	Remarks
1.1	14 October 2020	<p>Hyperlinked section summary to enable quick access to key sections</p> <p>Improved clarity on Key Project Information</p> <p>Section for POA monitoring</p> <p>Forward action request section</p> <p>Improved Clarity on SDG contribution/SDG Impact term used throughout</p> <p>Clarity on safeguard reporting</p> <p>Clarity on design changes</p> <p>Leakage section added for VER/CER projects</p> <p>Addition of Comparison of monitored parameters with last monitoring period</p> <p>Provision of an accompanying Guide to help the user understand detailed rules and requirements</p>
1.0	10 July 2017	Initial adoption